

that first gaps are circumferentially formed between adjacent tapes of the phase conductor;

a return conductor including at least a second layer of tapes of superconducting material circumferentially wound on a support side by side at a second prefixed distance so that second gaps are circumferentially formed between adjacent tapes of the return conductor.

30. (New) The superconducting cable according to claim 29 wherein a non-superconducting material is present among at least one of the tapes of superconducting material and the tapes of the return conductor.--

IN THE ABSTRACT

Please replace the Abstract with the following.

Abstract

A superconducting cable includes at least one layer of tapes of superconducting material circumferentially wound side by side on a support at a prefixed distance forming gaps circumferentially among adjacent tapes. Within the superconducting cable, a non-superconducting material is interposed between adjacent tapes to partially fill the gaps.

REMARKS

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com